

BILL NO. 85-40

AS AMENDED

COUNTY COUNCIL

OF

HARFORD COUNTY, MARYLAND

BILL NO. 85-40 (AS AMENDED)

Introduced by Council President Hardwicke at the  
request of the County Executive

Legislative Day No. 85-20

Date July 9, 1985

AN ACT to repeal Section 453 of the Code of Public Local Laws of Harford County, 1965 Edition, As Amended), heading, Private Waste Disposal Systems, and to add new Chapter 22, heading, Private Waste Disposal Systems to the Harford County Code, as amended, to stand in lieu of the repealed public local law; and to provide for the regulation of private waste disposal systems, sanitary construction permits and inspection; to require minimum reserve lot area for waste disposal based on public sewer priority; to provide for variances in certain design criteria; to provide for penalties for violation thereof and generally relating to the control of installation and operation of private waste disposal systems.

By the Council, July 9, 1985

Introduced, read first time, ordered posted and public hearing scheduled

on: August 13, 1985

at: 6:30 P.M.

By Order: Angela Markowski, Secretary

PUBLIC HEARING

Having been posted and notice of time and place of hearing and title of Bill having been published according to the Charter, a public hearing was held on August 13, 1985 and concluded on August 13, 1985.

Angela Markowski, Secretary

EXPLANATION: CAPITALS INDICATE MATTER ADDED TO EXISTING LAW. [Brackets] indicate matter deleted from existing law. Underlining indicates language added to Bill by amendment. Language lined through indicates matter stricken out of Bill by amendment.

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AS AMENDED

1 Section 1. Be It Enacted by the County Council of Harford County,  
2 Maryland, that Section 453, heading, Private Waste Disposal  
3 Systems, of the Code of Public Local Laws of Harford County, 1965  
4 Edition, be, and it is hereby repealed and that new Chapter 22,  
5 heading, Private Waste Disposal Systems, be, and it is hereby  
6 added to the Harford County Code, as amended, to stand in lieu of  
7 the repealed law, all to read as follows:

8 ARTICLE I. GENERAL CONDITIONS.

9 [453] CHAPTER 22. Private Waste Disposal Systems.

10 [(a) (1) The "approving authority" shall be the Health  
11 Officer of Harford County or his duly appointed representative as  
12 designated by the Secretary of Health and Mental Hygiene. The  
13 term "approved" or "approval" always refers to the approval of  
14 the approving authority.

15 (2) The term "person" shall mean a person, persons,  
16 partnerships, firms, corporations and cooperative enterprises.]  
17 SECTION 22-1. THE "APPROVING AUTHORITY": THE HEALTH OFFICER OF  
18 HARFORD COUNTY OR A DULY APPOINTED REPRESENTATIVE AS DESIGNATED BY  
19 THE STATE SECRETARY OF HEALTH AND MENTAL HYGIENE.

20 SECTION 22-2 [(3)] All persons, firms or corporations who  
21 construct dwellings, stores, offices, factories or any other  
22 building which will have human occupancy or any additions to  
23 existing buildings shall, in the absence of a public sanitary  
24 sewer, be required to install a private waste disposal system or  
25 add to the existing system in accordance with the following  
26 specifications, as stated herein, before said structure shall be  
27 occupied.

28 SECTION 22-3 [(4)] On and after the effective date of this law,  
29 any person planning to install a private waste disposal system, or  
30 make additions to or alterations to an existing system, shall  
31 obtain a sanitary construction permit before starting work on such  
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1 system from the approving authority. The length of time a permit  
2 is to be effective shall be specified in the permit and shall not  
3 exceed one (1) year. Said permit shall become inoperative at the  
4 expiration of the period of time prescribed, without notice to  
5 that effect having been given by the approving authority.

6 SECTION 22-4 [(5)] To obtain such a permit, the owner of the  
7 property or his agent must provide information to the approving  
8 authority as to the location of the property, size of the lot,  
9 plot plan, nature and size of the building, results of soil  
10 percolation tests when necessary and location of existing or  
11 planned water supplies or systems on an application form  
12 obtainable from the Health Department.

13 SECTION 22-5 [(6)] The approving authority shall have the right  
14 to refuse any permit for the installation of a private sewage  
15 disposal system if the plans, soil percolation test or other such  
16 pertinent data are not in accordance with the requirements as  
17 herein set forth.

18 SECTION 22-6 [(7)] No private waste disposal system shall be  
19 constructed on a property REASONABLY accessible to an existing  
20 public sanitary sewer. A private waste disposal system found to  
21 be malfunctioning where public sanitary sewer is available shall  
22 be abandoned, and the building sewer connected to the public  
23 sanitary sewer.

24 SECTION 22-7 [(8)] All new work, and such portions of existing  
25 systems as may be affected by new work or any changes, shall be  
26 inspected by the approving authority or his representative to  
27 insure compliance with all the requirements of this regulation and  
28 to assure that the installation and construction of the disposal  
29 system is in accordance with the approved plans. Advance notice  
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1 is required in order to receive the necessary inspection, and the  
2 inspection shall be made within twenty-four (24) hours during the  
3 normal work week.

4 SECTION 22-8 [(9)] Upon final inspection and approval, each  
5 person shall be responsible to backfill the private sewerage  
6 disposal system within seventy-two (72) hours. No system will be  
7 backfilled or covered until the approving authority has [given  
8 written approval.] APPROVED THE SYSTEM. Any part of an  
9 installation which has been covered prior to final approval shall  
10 be uncovered upon order of the approving authority.

11 SECTION 22-9 [(10)] All new work and such portions of existing  
12 systems as may be affected by new work or any changes or additions  
13 shall be performed by a Harford County licensed plumber and/or a  
14 bonded drainlayer. A homeowner may be permitted to do his own  
15 work according to the requirements of this Ordinance at the  
16 private home where he resides or plans to reside, provided that  
17 such work shall be inspected and approved by the approving  
18 authority. The approving authority shall refuse to issue permits  
19 and conduct inspections for any Harford County licensed plumber,  
20 bonded drainlayer or owner who has willfully or knowingly violated  
21 the provisions of this Ordinance until the violation has been  
22 corrected or resolved.

23 SECTION 22-10 [(11)] Any person failing to complete the  
24 construction of a private waste disposal system to the  
25 satisfaction of the approving authority shall be liable for the  
26 penalty outlined in [Subsection (m)] SECTION 22-27 of this  
27 [subtitle] ORDINANCE.

28 SECTION 22-11 [(12)] Building contractors, waste disposal system  
29 contractors, and plumbers shall be jointly and severally  
30 responsible for compliance with these regulations with any person  
31 for whom such installations are being made.  
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1 SECTION 22-12 [(13)] The basic requirements of this [subtitle]  
2 CHAPTER are to serve a single-family dwelling. Multi-family  
3 units, commercial units and other nondomestic unit requirements  
4 are calculated individually, based primarily on water usage and  
5 other requirements of this [subtitle] CHAPTER. The lot areas  
6 delineated in this [subtitle] CHAPTER are not applicable to  
7 commercial lots, multi-family units and other nondomestic units.

8 SECTION 22-13 [(14)] Where a private waste disposal system is to  
9 be used, the system shall consist of a septic tank (or other  
10 private disposal system as may be approved by the approving  
11 authority) with the effluent discharging into a subsurface tile  
12 drainage field, deep trench or seepage pit (dry well) or such  
13 other system approved by the approving authority.

14 SECTION 22-14 [(15)] After the initial installation of a private  
15 individual waste disposal system, the property owner shall be  
16 responsible for maintenance of the system. When a private waste  
17 disposal system is found to be malfunctioning and public sewerage  
18 is not available, the property owner or his agent shall upon  
19 notification from the approving authority be responsible for all  
20 required corrective procedures and repairs to the system within a  
21 time period specified by the approving authority. In cases where  
22 waste disposal systems other than septic tank systems are  
23 installed, a service policy shall be required by the approving  
24 authority and shall be for the life of the system; the  
25 requirements shall be set according to the system and/or model to  
26 be used.

27 SECTION 22-15 [(16)] Private waste disposal systems will not be  
28 installed in unsettled filled ground, as determined by the  
29 approving authority, in 100 Year Flood Plain Areas, or on slopes  
30 in excess of twenty percent (20%) grade. No portion of a private  
31 waste disposal system will be covered by driveways, swimming  
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1 pools, building additions or any other permanent structures,  
2 except that [cast iron building sewer] SEWER LINES OF APPROVED  
3 MATERIALS may be placed under driveways, [(See (d)(1)) SEE SECTION  
4 22-19(a)].

5 SECTION 22-16 [(17)] Due to the variability of soil conditions,  
6 water tables and individual use experience, approval of a private  
7 waste disposal system does not in any manner give or imply a  
8 guarantee that the system will operate satisfactorily for any set  
9 period of time.

10 [(18) Any duly authorized representative of the Health  
11 Department may enter and inspect any property, premise or  
12 place, at any reasonable time for the purpose of investigating  
13 any alleged violation of any provision of this subtitle. No  
14 person shall refuse entry or access to any authorized repre-  
15 sentative of the Health Department who requests entry for the  
16 aforementioned purpose, and who presents appropriate credentials;  
17 nor shall any person obstruct, hamper or interfere with any such  
18 inspection or investigation.]

19 [(18) RIGHT OF ENTRY, SEARCH WARRANTS OR ACCESS WARRANTS FOR  
20 THE INSPECTION OF ANY PREMISES OR PROPERTIES SHALL BE CONDUCTED IN  
21 ACCORDANCE WITH SECTION 1-18 AND SECTION 1-19 OF CHAPTER 1 OF THE  
22 HARFORD COUNTY CODE, AS AMENDED.

23 ARTICLE II. DESIGN OF SYSTEMS.

24 SECTION 22-17

25 [(b)(1)] (a) Design - The design of private (individual)  
26 waste disposal systems shall take into consideration the location  
27 with respect to private and municipal potable water supply wells  
28 and water systems or any other source of water supply, topography,  
29 water table, soil characteristics, available area and maximum  
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1 occupancy of the building. There shall be provision to  
2 accommodate adequate replacement systems until public sanitary  
3 facilities are available. (See (e)(8)) SEE SECTION 22-20(h).

4 [(2)] (b) Type of System - The type of private waste  
5 disposal system to be installed shall be determined on the basis  
6 of soil permeability, topography, and water tables.

7 [(3)] (c) Sanitary Sewerage - The private waste disposal  
8 system shall be designed to receive all sanitary sewerage,  
9 including laundry waste, from the building. Kitchen disposal  
10 systems (garbage grinders) will not be permitted to discharge into  
11 a private waste disposal system. Drainage from basement floor,  
12 footings, water conditioners, or roof gutters shall not enter the  
13 waste disposal system.

14 [(4)] (d) Discharge - The private waste disposal system  
15 shall consist of a septic tank or other approved treatment device,  
16 discharging into either a shallow subsurface disposal field, deep  
17 trench, one (1) or more seepage pits, or into a combination of  
18 them or such other approved system.

19 [(5)] (e) Grease Traps - Grease traps are not necessary for  
20 installations at private dwellings. If included in the design of  
21 the private waste disposal system, it shall be installed on the  
22 kitchen line, outside of the building, before entering the  
23 building sewer leading to the treatment device. The trap shall be  
24 provided with a removable cover to permit access for removing the  
25 accumulated grease. The minimum liquid capacity shall not be less  
26 than thirty (30) gallons.  
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## 1 SECTION 22-18

2 [(c)(1)] (a) Location - The initial private waste disposal  
3 system and replacement system shall be located as specified by the  
4 Health Department. The system is normally a gravity system  
5 located on the lower side of the lot in the area where the  
6 percolation test was taken and approved by the Health Department.

7 [(2)] (b) Distances - Table I provides for the minimum  
8 distances that shall be observed in locating the various  
9 components of the waste disposal system.

## 10 SECTION 22-19 [(d)] Building Sewer.

11 [(1)] (a) The building sewer which extends from  
12 approximately five (5) feet beyond the foundation wall shall be  
13 connected to the treatment device by cast iron pipe OR SCHEDULE 40  
14 OR SDR 35 PLASTIC PIPE, which shall be a minimum of four (4)  
15 inches in diameter.

16 [(2)] (b) Slope of the building sewer, ten (10) feet  
17 preceding the treatment device shall not exceed one-half (1/2)  
18 inch per foot.

19 [(3)] (c) Building sewer is to be cast iron pipe OR  
20 SCHEDULE 40 PLASTIC PIPE. All joints to be sealed in an approved  
21 method as prescribed within [Ordinance 28] THE Plumbing Code.

22 [(4)] (d) The building sewer should have a straight  
23 alignment and bends are to be avoided wherever possible. Change  
24 in direction, horizontal or vertical, shall be made by use of long  
25 radius one-fourth (1/4), one-eighth (1/8) or one-sixteenth (1/16)  
26 bends, or Y-branches.

27 [(5)] (e) Where the building sewer is greater than  
28 seventy-five (75) feet in horizontal drainage, a cleanout shall be  
29 required.  
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1        [(6)] (f) Cleanouts shall be installed at each change of  
2 direction of the building sewer greater than forty-five degrees  
3 (45°).

4        [(7)] (g) Cleanouts, when installed on an underground  
5 drain, shall be extended to or above the finished grade on either  
6 a forty-five degree (45°) or ninety degree (90°) plane.

7        [(8)] (h) Cast iron pipe OR APPROVED PLASTIC PIPE shall be  
8 used for a cleanout pipe of the same nominal size in the drainage  
9 system. Cleanout plugs shall be of brass OR APPROVED PLASTIC.

10       [(9)] (i) The building sewer shall in all cases be below  
11 the water supply line as required in [Section 38.06, Ordinance 28]  
12 THE Plumbing Code).

13 SECTION 22-20 [(e)] Percolation Test.

14       [(1)] (a) Percolation tests are required to determine the  
15 absorptive capacity of the soil. All percolation tests shall be  
16 performed under the supervision of the Health Department on all  
17 lots where a private waste disposal is required. Percolation  
18 tests will be conducted in the area as designated by the approving  
19 authority. Tests shall be made in sufficient number and at such  
20 locations to assure a reliable determination of subsurface  
21 conditions.

22       [(2)] (b) When shallow subsurface irrigation (drainfield)  
23 is contemplated, one (1) test hole or such additional test holes  
24 in numbers and locations as may be required to assure reliable  
25 determination of subsurface conditions shall be prepared as  
26 follows:

27       [(i)] (1) The test holes shall be prepared by digging two  
28 (2) foot square holes two (2) feet in depth. At the time of  
29 conducting the percolation tests, a hole one (1) foot square by  
30 one (1) foot depth shall be prepared within the previously dug two  
31 (2) foot square hole. Upon completion of the percolation test,  
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1 the soil will be checked to a depth of at least [three (3)] FOUR  
2 (4) feet below the proposed system to determine the presence of  
3 water tables and the depth of porous soil.

4 [(ii)] (2) When a deep subsurface disposal system (deep  
5 trench or seepage pits) is contemplated, one (1) test hole or such  
6 additional test holes in numbers and locations as may be required  
7 to assure reliable determination of subsurface conditions shall be  
8 prepared as follows:

9 [(iii)] (3) The test holes shall be prepared of such a  
10 size as to permit a man to enter the pit with a reasonable degree  
11 of safety. The depth of the test pit shall be sufficient to reach  
12 porous soil. In the bottom of this pit a one (1) foot square hole  
13 one (1) foot deep shall be prepared. Upon completion of the test,  
14 further excavation shall be required to an approximate depth of  
15 four (4) feet below the proposed system to determine the presence  
16 of the water table and the depth of porous soil. The bottom of  
17 the seepage pit or trench shall be four (4) feet above the  
18 established water table. Only the porous absorption area of the  
19 test pit shall be considered in calculating the size of the system  
20 to be installed.

21 [(3)] (c) A soil test consists of a two (2) inch drop of  
22 water level. The first inch which is considered the presoaking  
23 time shall not exceed twenty (20) minutes.

24 [(4)] (d) The time taken for the second one (1) inch drop  
25 is the recorded percolation test and is used in calculating the  
26 amount of square feet of absorption area that shall be required  
27 per one hundred (100) gallons of sewage effluent to be disposed.  
28 The second one (1) inch drop shall not exceed thirty (30) minutes,  
29 EXCEPT WHEN USING INNOVATIVE AND ALTERNATIVE SYSTEMS THE  
30 PERCOLATION RATE MAY BE GREATER.  
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1        [(5)] (e) The satisfactory soil test includes the following  
2 consideration: rate of water absorption, usable area, other nearby  
3 failing percolation tests, slope, size of initial system  
4 necessary, sufficient area for replacement systems, failing  
5 private systems in the area, and other related factors. The  
6 approving authority may require that soil tests be conducted  
7 during certain periods of the year when moderate to severe  
8 conditions are expected according to the Harford County Soil  
9 Survey, Maps and Interpretations as prepared by the U.S.  
10 Department of [Agricultural,] AGRICULTURE Soil Conservation  
11 Service.

12        [(6)] (f) Percolation tests may be generally considered  
13 invalid at any time when the approving authority has knowledge  
14 which indicates the test results are no longer accurate or test  
15 procedures have been altered sufficiently to render a significant  
16 change in the results. Additional percolation tests may be  
17 required.

18        [(7)] (g) After thorough soil testing of a parcel of ground  
19 and on finding the soil unsuitable for a private waste disposal  
20 system, the approving authority may consider such a parcel  
21 unsuitable for a private waste disposal system and may refuse to  
22 conduct additional soil tests.

23        [(8)] (h) Effluent Seepage Area Requirements - The total  
24 seepage area required shall be governed by the future availability  
25 of public sewerage. In the absence of public sanitary facilities  
26 and with favorable soil conditions, the following minimum effluent  
27 seepage areas will be required to be reserved for the use of the  
28 initial private waste disposal system and for subsequent expansion  
29 of the system should expansion prove necessary.  
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1	Minimum Area	
2	of	
3	Lot Reserved	
4	for	Public Sewer
5	Waste Disposal	Priority
6	10,000 square feet (original system	
7	+ space for correction)	Immediate - 10 years
8	[20,000 square feet (original system	
9	+ space for two (2) replacement	
10	systems)	10 year - 30 year]
11	40,000 square feet (original system	
12	+ space for three (3) or more	
13	replacement systems)	[Beyond 30 years Sewer
14		Plan] NO PLANNED SERVICE

15 [(9)] (i) Commercial lots, multi-family lots and other  
 16 nondomestic lots may be required to reserve a greater minimum  
 17 based upon their individual requirements.

#### 18 SECTION 22-21 [(f)] Septic Tanks

19 [(1)] (a) No septic tank shall serve more than one (1)  
 20 single-family dwelling or building for commercial use unless  
 21 authorized by the Health Department.

22 [(2)] (b) Capacity - The capacity of the septic tank shall  
 23 be in accordance with Table II.

24 [(3)] (c) Length - Septic tanks, up to one thousand (1,000)  
 25 gallon capacity, shall be twice as long as they are wide. Larger  
 26 tanks may be more than twice as long as wide and shall be [rectan-  
 27 gular] CIRCULAR in shape.

28 [(4)] (d) Depth - Minimum liquid depth for any size shall  
 29 be forty-eight (48) inches. The space between the fluid level and  
 30 the top of the tank shall be at least eight (8) inches.

31 [(5)] (e) Construction - Septic tanks shall be constructed  
 32 of corrosion-resistant materials.

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1        [(6)] (f) Steel tanks shall meet the U. S. Department of  
2 Commerce Commercial Standard 177-51. The metal used in steel  
3 tanks shall not be less than fourteen (14) gauge for steel tanks  
4 one thousand (1,000) gallons or less. They shall be coated inside  
5 and outside with asphalt coating or other acceptable materials.

6        [(7)] (g) Precast tanks shall be of vibrated reinforced  
7 concrete with a minimum wall thickness of three (3) inches.

8        [(8)] (h) Manholes - The inlet compartment must be provided  
9 with a manhole which shall be at least twenty (20) inches square,  
10 with the opening to expose at least six (6) inches inside the  
11 inlet baffle.

12        Where removable slabs are provided on precast concrete tanks,  
13 the provision for installing a six (6) inch pipe to grade level  
14 shall prevail.

15        [(9)] (i) Baffles - Baffles shall be installed no less than  
16 eight (8) inches from the end walls and shall extend at least six  
17 (6) inches above the flow line. The inlet baffles shall extend  
18 twelve (12) inches below the flow line and the outlet fifteen (15)  
19 to eighteen (18) inches below the flow line. (On precast or  
20 poured concrete tanks, baffles shall be of six (6) inch cast iron  
21 sanitary [telegram] TEES or precast or poured reinforced  
22 concrete.)

23        [(10)] (j) Invert - The invert of the inlet pipe shall be  
24 three (3) inches higher than the invert of the outlet pipe.

25        [(11)] (k) Septic Tank Standpipe - The septic tank  
26 standpipe will be inserted in the hole provided in the septic tank  
27 and extend to the surface of the ground as represented by the  
28 final grade. The standpipe extension will be six (6) inch steel,  
29 [or] cast iron OR APPROVED PLASTIC pipe with a tight-fitting cap.  
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1        [(12)] (l) Installation - The septic tank shall be  
2 installed in such a manner that the top shall not be more than  
3 twenty-four (24) inches below the finished grade. Plumbing  
4 elevations must be carefully planned to fulfill this requirement.

5        [(13)] (m) The septic tank shall be set level and filled  
6 with water or the void space around the tank shall be compacted  
7 with fill to prevent the tank from floating.

8        [(14)] (n) Alterations or changes in septic tank  
9 construction shall be approved by the approving authority.

10       [(15)] (o) All voids, joints and openings shall be properly  
11 sealed to make the septic tank watertight, prior to final  
12 inspection.

13 SECTION 22-22 [(g)] Distribution Box

14       [(1)] (a) A distribution box or boxes shall be required for  
15 all trench type systems (shallow or deep) and/or when two (2) or  
16 more seepage pits (drywell) are installed.

17       [(2)] (b) Location - The distribution box shall be located  
18 on solid ground at least five (5) feet from the septic tank and a  
19 minimum of six (6) feet from any seepage area.

20       [(3)] (c) Construction - The distribution box shall be of  
21 watertight construction from either brick, concrete (formed) or  
22 concrete block (parged) with a removable top.

23       [(4)] (d) Invert Level - The invert of the inlet pipe shall  
24 be located two (2) inches above the invert of the outlets to each  
25 distribution line.

26       [(5)] (e) Baffle - Every distribution box shall have a  
27 baffle at least six (6) inches high and extending two-thirds (2/3)  
28 across the bottom with equal open spaces between ends of baffle  
29 and side walls of the box. The baffle shall be firmly set on the  
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1 bottom of the box, shall be placed at right angles to the  
2 direction of the incoming flow, and shall be placed a minimum of  
3 six (6) inches from the inlet.

4 [(6)] (f) Connections - The distribution box shall be  
5 connected to the septic tank or other treatment device by a four  
6 (4) inch cast iron OR APPROVED PLASTIC PIPE pipe with a watertight  
7 seal at both ends. A watertight four (4) inch solid pipe shall be  
8 used to convey the septic effluent from the distribution box to  
9 the absorption area. All connections to the distribution box shall  
10 be sealed to prevent any seepage from the box. All outlet ports  
11 not used shall be properly plugged and sealed with concrete to the  
12 wall thickness of the box.

13 SECTION 22-23 [(h)] Disposal Field

14 [(1)] (a) Minimum Standards - The minimum standards for the  
15 construction of all subsurface drainage disposal systems shall be  
16 shown in Table VI.

17 [(2)] (b) Size and Requirements - Size requirements for  
18 subsurface drainage disposal systems shall conform to Tables III  
19 and IV.

20 [(3)] (c) Disposal trenches (shallow or deep) shall be  
21 designed and constructed on the basis of the percolation test and  
22 the required effective absorption area approved by the Health  
23 Department. Each disposal trench shall be connected by a  
24 watertight line from the distribution box to the trench. There  
25 shall be a minimum of six (6) feet of solid ground between the  
26 distribution box and the beginning of the trench. No disposal  
27 trench shall be subdivided. Pressure systems using force pumps  
28 shall be of the manifold type from the dumping chamber to the  
29 distribution box or boxes.  
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1        [(4)] (d) Filter Material - The filter material shall not  
2 be less than twelve (12) inches in depth below the drain tile and  
3 shall extend the full width of the trench. After installation of  
4 the drain tile, additional filter material shall be placed  
5 surrounding and over the drain tile to a depth of not less than  
6 two (2) inches. Filter material shall consist of washed gravel,  
7 crushed stone, or like materials, ranging in size from one-half  
8 (1/2) inch to two and one-half (2 1/2) inches in diameter, and  
9 free of all fines, dusts, ashes, clay and other debris.

10       [(5)] (e) Filter Material Cover - Filter material cover may  
11 consist of hay, straw, red resin or building paper the width and  
12 length of the trench. Asphalt treated paper shall not be used.

13       [(6)] (f) Backfill Material - Backfill material shall be  
14 select earth-fill and to be free of clay inert.

15       [(7)] (g) Deep Disposal Trenches - Deep disposal trenches  
16 may vary from four (4) feet depth to about fourteen (14) feet in  
17 depth. the standard depths are eight (8) feet, ten (10) feet, and  
18 twelve (12) feet. The trench filler material [(see (h)(4))] (SEE  
19 SECTION 22-23(d)) is used from just above the level of the pipe to  
20 the bottom of the trench. A typical ten (10) foot trench would  
21 consist of eight (8) feet of crushed stone, perforated pipe or  
22 tile [(see (h)(8))] (SEE SECTION 22-23 (h)) is located in the top  
23 two (2) inches of stone covered by a filter material cover [(see  
24 (h)(5))] (SEE SECTION 22-23(e)) and the backfill material [(see  
25 (h)(6)) (SEE SECTION 22-23(f)).

26       [(8)] (h) Tile Field - The tile fields shall be constructed  
27 of [twelve (12) inch lengths of four (4) inch agricultural or  
28 cement drain tile, or] standard sections of PERFORATED plastic  
29 pipe or other approved materials. [The twelve (12) inch tiles  
30 shall be spaced not less than one-eighth (1/8) inch and not more  
31 than one-fourth (1/4) inch apart and the upper half to be capped  
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1 by asphalt treated paper in strips four (4) inches in width by  
2 ten (10) inches in length.] The perforated pipe shall be  
3 installed in such a manner that the holes will be downward at the  
4 4 o'clock and 8 o'clock position. Disposal field trench bottom and  
5 tile and pipe shall have a maximum slope of four (4) inches per  
6 one hundred (100) foot of trench length [(see (h)(4),(5),(6)) (SEE  
7 SECTION 22-23 (d), (e), (f)).

8 (i) Seepage Pit (Drywell)

9 (1) Seepage Pit - Seepage pits may be used when approved by  
10 the Health Department either to supplement the subsurface disposal  
11 field or in lieu of such disposal field where soil conditions and  
12 topography favor the operation of such pits. The minimum  
13 standards for the construction of seepage pits shall be shown in  
14 Table VI.

15 (2) Size - The capacity of a seepage pit is to be computed  
16 on the basis of an approved percolation test in accordance with  
17 requirements as specified in Section [(e)(1)] 22-20(a). The  
18 dimensions specified are the inside block wall diameter under the  
19 inlet pipe. (See Table V)

20 (3) Seepage Pit Construction - Pits are to be circular in  
21 plan. The vertical wall of nondrilled pits shall be lined with  
22 eight inch by eight inch by sixteen inch (8"X8"X16") [or longer]  
23 cinder, slag, [or] concrete blocks, OR OTHER APPROVED MATERIALS,  
24 laid up dry with open joints from the bottom to the inlet pipe.  
25 The core of the block shall be in the vertical position. The  
26 joints above the inlet pipe to the cover shall be sealed with  
27 mortar cement. Where two (2) or more drywells are used, the  
28 separation shall be a minimum of three (3) times the diameter of  
29 the largest drywell.  
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1 (4) Filter Material - The annular space between the  
2 original soil and the vertical block wall of the nondrilled  
3 drywell shall be filled with a filter material of either washed  
4 gravel, crushed stone or like material that has been approved.  
5 This material shall extend from the bottom of the pit to the  
6 bottom of the inlet pipe. This paragraph does not apply to bored  
7 seepage pits where the block fit tight against the side wall.

8 (5) Filter Material Cover - [(see (h)(5))] (SEE SECTION  
9 22-23(e)).

10 (6) Backfill Material - [(see (h)(6))] (SEE SECTION  
11 22-23(f)).

12 (7) Seepage Pit Cover - A reinforced concrete cover, a  
13 minimum of five (5) inches in thickness shall be required. A six  
14 (6) inch diameter hole shall be provided to accommodate a six (6)  
15 inch iron, [or] steel, OR APPROPRIATE PLASTIC pipe.

16 (8) Seepage Pit Cleanouts - The cleanout shall extend to  
17 finish grade and be provided with a tight-fitting cap.  
18 SECTION 22-24 [(j) Other] ALTERNATE Methods of Effluent Disposal.

19 In any instance where sewage effluent from an individual  
20 waste disposal system is to be discharged onto the surface of the  
21 ground or into the waters of the State, final approval of the  
22 proposal, including the issuance of a point of discharge, shall be  
23 subject to the policies of the Maryland State Department of Health  
24 and Mental Hygiene.

25 SECTION 22-25 [(k)] Privies

26 New privies can be approved where conditions prohibit  
27 underground sewage disposal for structures with intermittent,  
28 temporary or seasonal use. They will not be approved for new  
29 buildings with permanent full-time occupancy. Any new privies or  
30

1 rebuilt existing privies require a Sanitary Construction Permit,  
2 and when constructed must be inspected and approved by the  
3 approving authority.

4 SECTION 22-26 [(1)] Variances

5 Provision for flexibility in certain ENGINEERING design  
6 criteria necessitated by unusual TOPOGRAPHIC OR SOIL circumstances  
7 or select changes in design may be accomplished on written  
8 approval of the approving authority.

9 [(m) Severability

10 If any section, subsection, sentence, clause, phrase or  
11 portion of this Ordinance is for any reason held invalid or  
12 unconstitutional by any Court of competent jurisdiction, such  
13 portion shall be deemed a separate, distinct and independent  
14 provision and such holding shall not affect the validity of the  
15 remaining portions thereof. This subtitle is supplementary to,  
16 but does not supersede, the regulations of the State Board of  
17 Health.]

18 SECTION 22-27 [(n)] Penalty

19 Any person found guilty of violating any provision of this  
20 Ordinance shall be deemed guilty of a misdemeanor and shall be  
21 fined not less than Fifty Dollars (\$50.00) and not more than Two  
22 Hundred Fifty Dollars (\$250.00), and every day such violation  
23 exists shall constitute a separate offense and be punishable as  
24 such hereunder.

25 [(o) Effective Date

26 Any preliminary plan or record plat of a subdivision or  
27 approved individual lot which has been submitted to the approving  
28 authority prior to the date of adoption of this law shall not be  
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1 required to comply with seepage area requirements of these re-  
2 gulations, if final approval and recordation, where required by  
3 law, is completed no later than twelve (12) months from the date  
4 of adoption; however, any application received after the adoption  
5 of this law must comply with these regulations.]  
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[(p) Annexes]

Table I  
Minimum Distances for  
Location of Components of Private  
Waste Disposal Systems

Shallow Well & Spring (feet)	Drilled Well (feet)	Water Supply Line (feet)	Building Foundation (feet)	Property Line (feet)	Stream (feet)	Swimming Pool (feet)
Building Sewer*(1)						
	50	10		15		
Septic Tank*(2)						
100	[50] 100*(3)		20	15		20
Distribution Box						
100	[60] 100*(3)		25	15		25
Disposal Field						
100	[75] 100*(3)		30	15	100	30
Seepage Pits						
100	75		30	15	100	30

\*(1) Where building sewer is less than fifty (50) feet from a water supply, the building sewer shall be cast iron OR APPROVED PLASTIC pipe with approved joints.

\*(2) Depending upon the topography of the building lot, the sewage system can, on approval from the Health Department, be located closer to the building foundation.

\*(3) RECORDED LOTS AS OF SEPTEMBER 1, 1985, THE DISTANCE IS SEVENTY-FIVE (75) FEET.

1 [(q)]

2 Table II  
3 Capacity of Septic Tanks4 A minimum capacity for a septic tank serving a single-family dwelling  
5 shall provide for the treatment of sanitary sewerage as defined under  
6 [paragraph (f)] SECTION 22-21.7  
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Number of Bedrooms	Liquid Capacity of Tank Requirement
1 & 2	750
3 & 4	1000
5	1250
6	1500

11 For each additional bedroom beyond six (6), add two hundred fifty (250)  
12 gallons to the liquid capacity requirement.  
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Table III  
Deep Disposal Trench Systems

Time In Minutes for One Inch (1") Drop	Effective Absorption Sidewall Area Per 100 Gallons/Square Feet*(1)**(2)
1-5	350
6-10	400
11-15	500
16-20	625
21-30	775

\*(1) Effective absorption area for each 100 gallons of sewage per day - 2 persons/bedroom and 75 gallons/person/day.

\*\* (2) Effective sidewall area = vertical depth of sidewall area below percolation or porous soil to bottom of trench.

Example: 3 bedroom = 6 persons X 75 gallons/day = 450 gallons/day.  
10 minute percolation = 400 square feet X 4.5 gallons/square feet = 1800 square feet of absorption area required.

1800 square feet divided by 16 square feet (sidewall area) = 113 lineal feet of 10 foot deep trench required. (Additional length may be required if porous soil starts at greater depth.)

Note: 12 sq. ft./lineal ft. is max. possible for 8' deep trench.

16 sq. ft./lineal ft. is max. possible for 10' deep trench.

20 sq. ft./lineal ft. is max. possible for 12' deep trench.

AS AMENDED

[(s)]

Table IV  
Shallow Tile Field Requirements

Time In Minutes for 1" Drop	Length of Tile Drain for Standard 24" Trench		
	18"	24"	36"
<u>Two Bedroom</u>			
1-5	240	210	180
6-10	280	240	210
11-15	304	270	240
16-20	336	300	270
21-30	400	330	300
<u>Three Bedroom</u>			
1-5	288	240	210
6-10	360	300	240
11-15	420	330	270
16-20	504	360	300
21-30	619	450	390
<u>Four Bedroom</u>			
1-5	384	300	270
6-10	480	330	300
11-15	594	390	360
16-20	672	450	420
21-30	799	540	510
<u>Five Bedroom</u>			
1-5	480	420	360
6-10	600	450	420
11-15	720	510	480
16-20	840	570	540
21-30	960	690	600



[(t)]

Table V  
Seepage Pit (Drywell) Requirements

Effective absorption area for each 100 gallons of sewage per day - using 2 persons/bedroom and 75 gallons/person day.

A.

<u>Time in Minutes for 1" Drop</u>	<u>Effective Absorption Area (sq. ft.)</u>
1-5	96
6-10	108
11-15	139
16-20	167
21-30	200

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[(t)]

Table V (Cont'd.)

## B. Vertical Sidewall Area (Sq. Ft.)

Effective Sidewall Area Below Inlet	Inside Diameter of Seepage Pit					
	5'	7'	8'	9'	10'	12'
5	79	110	126	141	157	188
6	94	132	151	170	188	226
7	110	154	176	198	220	264
8	126	176	201	226	251	302
9	141	198	226	254	283	339
10	157	220	251	283	314	377
11	173	242	276	311	345	414
12	188	264	302	339	377	442
13	204	286	326	378	408	490
14	220	308	351	396	440	528
15	235	330	377	425	471	565
16	251	352	402	453	502	603
17	267	374	427			
18	283	396	452			
19	298	418	477			
20	314	440	502			

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AS AMENDEE

1 [(u)]

2  
3 Table VI  
Minimum Construction Requirements

4 <u>Construction Element</u>	<u>Minimum Requirement</u>
5 1. <u>Tile Field</u> (Shallow)	
6 Individual lines per field	2
7 Individual line, minimum length	50 feet
8 Individual line, maximum length	100 feet
9 Individual trench width, minimum	18 inches
10 Individual trench width, maximum	36 inches
11 Individual trench depth, minimum	26 inches
12 Individual trench depth, maximum	30 inches
13 Field tile (concrete or perforated)	4 inch diameter
14 Field tile lines, maximum slope	4 inch/100 feet
15 Minimum depth of stone under tile pipe	12 inches
16 Minimum cover of stone over the pipe	2 inches
17 Space between trenches, minimum 18 (on center)	8 feet
19 Distance of solid earth between 20 trench and distribution box	6 feet
21 2. <u>Disposal Trench</u> (Deep)	
22 Lines per field	2
23 Individual line, maximum length	100 feet
24 Individual line, minimum length	35 feet
25 Individual trench width, minimum	12 inches
26 Individual trench width, maximum	24 inches
27 Field tile (concrete or perforated)	4 inch diameter
28 Field tile lines, maximum slope	4 inch/100 feet
29 Minimum depth of stone under tile pipe	as specified
30 Minimum cover of stone over tile pipe	2 inches
31 Space between trenches, minimum (on center)	10 feet
32 Distance of solid earth between trench and distribution box	6 feet

[(u)]

Table VI (Cont'd)

Construction Element3. Seepage Pit (Drywell)Minimum Requirement

Individual drywell, minimum inside block	5 feet diameter
Individual drywell, maximum inside block	10 feet diameter
Space between drywell if more than one	3 X diameter
Distance from distribution box, minimum	5 feet
Minimum clearance from masonry block to sidewall of pit	6 inches
Filter material between drywell and pit sidewall from bottom of pit to inlet pipe	

85-40

AS AMENDED

1 Section 2. And Be It Further Enacted, that this Act shall take effect  
2 sixty (60) calendar days from the date it becomes law.  
3 EFFECTIVE: November 4, 1985  
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AS AMENDED

85-40

BY THE COUNCIL

AS AMENDED

BILL NO. 85-40 (as amended)

Read the third time.

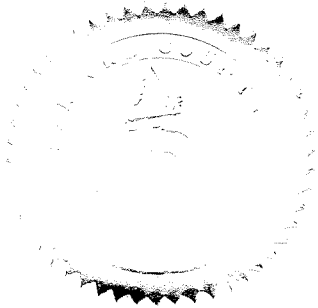
Passed LSD 85-24 (September 3, 1985) (with amendments)

Failed of Passage

By order

Angela Markowski, Secretary

Sealed with the County Seal and presented to the County Executive  
for his approval this 4th day of September, 19 85  
at 3:00 o'clock P.M.



Angela Markowski, Secretary

BY THE EXECUTIVE

APPROVED:

[Signature]

County Executive

Date 9-4-85

BY THE COUNCIL

This Bill (No. 85-40, as amended), having been approved by  
the Executive and returned to the Council, becomes law on  
September 4, 1985.

Angela Markowski Secretary

EFFECTIVE DATE: November 4, 1985

85-40

AS AMENDED